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Fig. 1.

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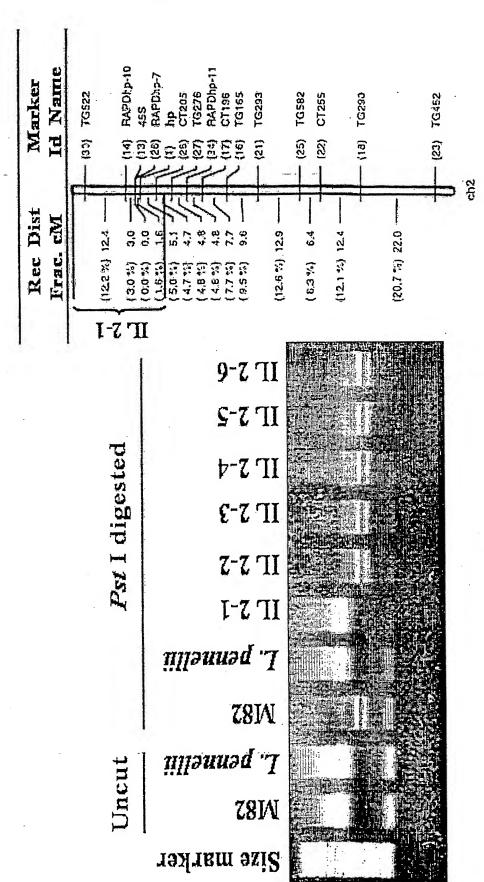
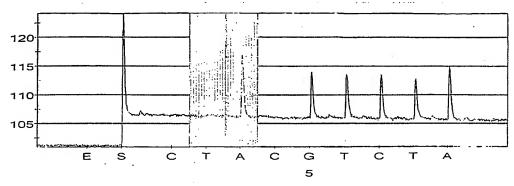


Fig. 2

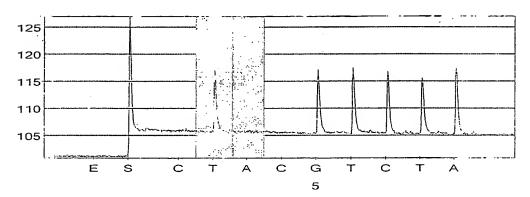
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Fig. 3

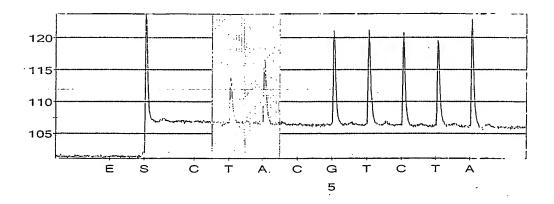
a. hp-1/hp-1

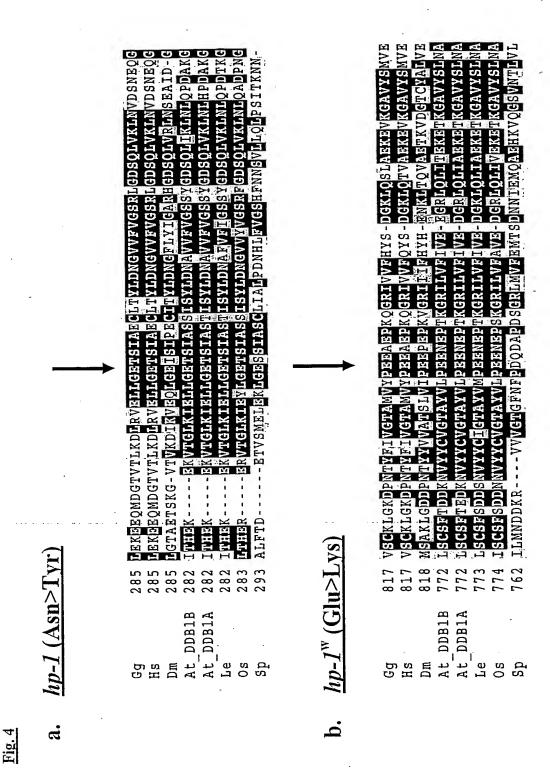


b. +/+



c. hp-1/+





81

1 ATGAGTGTATGGAACTACGTGGTTACGGCTCACAAACCAACAAATGTTACACATTCCTGTGTTGGCAATTTCACCGGTCC

161 TAGATGTGCCAATATATGGGÅGGATCGCGACACTTGAGCTTTTTCGTCCTCACGGTGAAACACAAGATCTTCTTTTTCATC GCAACAGAGCGATATAAATT¢TGTGTCCTTCAATGGGATACTGAGGCATCTGAAGTTATCACAAGAGCAATGGGAGATGT

881 TIGAGCIACTGGGGGAAACTTCTATTGCATCATATCATACCTAGAC $oldsymbol{A}$ ATGCTTTTGTCTTCATTGGCTCAAGCTAC ATGATGCTGTATACAACCAGCTTGTTCAGGTTACTTCAAATTCTGTTAGATTGGTCAGTTCTACCTCTAGAGATCTGAAA AACGAGTGGTTTGCCCCAGTCGGCTACTCGGTCAATGTTGCAACTGCTAATGCCACTCAGGTACTATTGGCTACTGGGGG 1681 AGGATATATICACTTCCTGACTTGAATCTCATTACAAAGGAACAGCTAGGAGGGGGAATAATTCCTCGTTCTGAT 1761 GTGTTCCTTCGAAGGGATATCTTATCTACTATGTGCTTTGGGAGATGGCCATCTCTTGAATTTTGTATTGAGCATGAGTA 721 AGCGCTTCAGCTTTTAAGGCTATCCCAATTAGACCTTCTATCACAAGAGCATATGGGCGGGTTGATGCTGATGGTTCTCG 801 ATATTIGCTIGGGGAICATAATGGGCTICTICACCTACTIGTAATCACTCATGAGAAGGAGAAAGTIACCGGACTCAAAA 961 GGAGATTCACAGCTİGTAAAĞCTCAATCTCCAGCCTGACACGAAGGTTCTTATGTGGAAGTTCTAGAGATATGTCAA 1041 TITAGGACCTATIGTGGACTICTGTTGTTGATCTGGAAAGGCAAGGTCAAGGTCAGGTTGTAACTTGCTCTGGAGCCT 1121 ATAAGGATGGATCACTTCGTATTGTTCGAAATGGAATTGGCATAAATGAACAGGCGTCTGTGGAACTACAAGGGATCAAA GGAATGTGGTCTCTTAGATCTGCTACTGATGATCCATATGACACATTCTTGGTTGTTAGCTTCATTAGTGAGACACGCGT TTTGGCTATGAACCTTGAGGATGAGCTGGAAGAACTGAGATAGAAGGCTTCAATTCTCAAGTCCAGACCTTGTTTTGTC CIGGIGAGCIGACAGAIAGGAAAAAGIIICICITIGGACACACAGCCCAIAACACIICGIACAIICICAICIAAAGAIACI GTCAGACCGAATAGGCCGTCCCACAGATAATGGTCAGATTGGTATAATTGATCCAGATTGCAGATTGATCGGGGCTACATC CTTCAAGTTTTAGATATTAAATTCTTGTATGGTTGCCCAAAGCCTACAATTGTTGTTGTTATATCAGGATAACAAGGATGC CCGGCATGTCAAAACATATGÅGGTGTCCTTGAAAGACAAGATTTTATTGAAGGGCCCATGGGGCTCAAAATAATCTTGATA 641 ATGGAGCTTCTTTGCTAATACCAGTACCTCCACCACTGTGTGTTTTGATTATTGGAGAAGAAACCATCGTTTATTGC 561

CAATTGGCACTATTGATGAAATTCAAAAGCTTCACATTCGTTCAATACCCCTTGGGGAGCATGCACGTCGCATCAGCCAT 2241 CCGCCTGTTGGATCAGACATTTGAGTTCATATCAGATATCCCCTTGACCAATTTGAATATGGCTGTTCCATACTAA GCTGCTCCTTTTCTGATGATAGTAATGTGTATTATTGCATTGGAACTGCATATGTGATGCCAGAGGAAAAT**G**AACCTACT 2401 AAGGGCCGAATTTTAGTTTTTATAGTTGAAGATGGAAAGCTCCAGCTAATTGCTGAGAAGGAAACTAAGGGAGCTGTCTA CTCTCTAAATGCCTTCAATGGGAAACTGCTTGCTGCAATCAAATCAGAAGATTGAAATTGTACAAGTGGGCTTCGCGTGAGG 3041 IGCAGACAAACTTACGGAAAGTGATAAAGGGTGTGGGAGGTCTGAGCCATGGAGCAGTGGAGGTCGTTTTACAATGAGAAG 1921 ACACATGTCTTTGCTGCCTCCGATAGGCCAACAGTTATTTACAGCAGTAACAAGAAGCTGCTTTATAGCAATGTAAATCT **AAAAGAAGTTAGTCATATGTGCCCATTCAATGTTGCAGCTTTTCCAGACAGCCTTGCAATCGCTAAAGAAGGTGAGTTAA** 2161 CAAGAGCAGACCCGGACATTTGCTCTATGCAGTGTATACTCAGTCAAATGCAGATGATCCTGAAATGCATTTTGT ATGGTGGCAGCCGAGAATTGCAGACAGAATGTGGACACCATGGTCATATATTAGCTCTTTATGTTCAAACACGTGGGGAT 2721 CAGAGACTATAATGCAAATTGGATGTCAGCTGTTGAGATTCTCGATGATGACATTTATCTTGGTGCTGAGAATAACTTCA 2881 CTTGGCGAATTTGTTAATAGGTTTAGACATGGTTCACTTGTCATGCGACTACCAGATTCAGATGTTGGGCAGATACCCAC 3201 GATTTCAAAGGCTATGTCAGTTCCAGTTGAGGAACTAATGAAGAGAGTGGAAGAGTTGACAAGGTTGCATTA $_{
m G}$ 2321 2481 2561 2641

Fig. 6

1 MSVWNYVVTAHKPTNVTHSCYGNFTGPQELNLIIAKCTRIEIHLLTPQGLQPMLDVPIYGRIATLELFRPHGETQDLLFI

721 QEQTRIFALCSVKYTQSNADDPEMHFVRLLDDQTFEFISTYPLDQFEYGCSIISCSFSDDSNVYYCIGTAYVMPEEN**E**PT 241 SASAFKAIPIRPSITRAYGRVDADGSRYLLGDHNGLLHLLVITHEKEKVTGLKIELLGETSIASTISYLD**N**AFVFIGSSY 81 ATERYKFCVLQWDTEASEVITRAMGDVSDRIGRPTDNGQIGIIDPDCRLIGLHLYDGLFKVIPFDNKGQLKEAFNIRLEE 161 LQVLDIKFLYGCPKPTIVVLAQDNKDARHVKTYEVSLKDKDFIEGPWAQNNLDNGASLLIPVPPPLCGVLIIGEETIVYC 321 GDSQLVKLNLQPDTKGSYVEVLERYVNLGPIVDFCVVDLERQGQGQVVTCSGAYKDGSLRIVRNGIGINEQASVELQGIK 401 GMWSLRSATDDPYDTFLVVSFISETRVLAMNLEDELEETEIEGFNSQVQTLFCHDAVYNQLVQVTSNSVRLVSSTSRDLK 561 RIYSLPDINLITKEQLGGEIIPRSVLMCSFEGISYLLCALGDGHLLNFVLSMSTGELTDRKKVSLGTQPITLRTFSSKDT 801 KGRILVFIVEDGKLQLIAEKETKGAVYSLNAFNGKLLAAINQKIQLYKWASREDGGSRELQTECGHHGHILALYVQTRGD I.GEFVNRFRHGSLVMRLPDSDVGQIPTVIFGTVNGVIGVIASLPHDQYLFLEKLQTNLRKVIKGVGGLSHEQWRSFYNEK 481 NEWFAPVGYSVNVATANATOVLLATGGGHLVYLEIGDGVLNEVKYAKLDYDISCLDINPIGENPNYSNIAAVGMWTDISV 641 THVFAASDRPTVIYSSNKKLLYSNVNLKEVSHMCPFNVAAFPDSLAIAKEGELTIGTIDEIQKLHIRSIPLGEHARRISH FIVVGDLMKSISLLİFKHEEGALEERARDYNANWMSAVEILDDDIYLGAENNFNLFTVRKNSEGATDEERSRLEVVGEYH 1041 KTVDAKNFLDGDLIESFLDLSRNRMEEISKAMSVPVEELMKRVEELTRLH